

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A carding machine comprising a main drum fed by a feed system with roughly attenuated and cleaned fibers fibres; at least one system of flats for carding the said fibers fibres, the at least one system of flats acting on the ~~said~~ main drum[[]] wherein the in which the said feed systems comprises at least two ~~opening cylinders or~~ briseurs which feed the ~~said~~ main drum at different points of the main drum, and ~~in which~~ wherein the ~~said~~ system of flats comprises a plurality of sets of moving flats arranged downstream of the ~~said~~ briseurs, wherein each of the sets of moving flats is capable of moving both against and with a direction of rotation of the main drum.

2. (currently amended) The carding Carding machine according to claim 1, in which the ~~said~~ system of flats comprises a first set of moving flats and a second set of moving flats arranged downstream of the ~~said~~ first set of moving flats, wherein a direction of travel of the bars of the first set of moving flats is in the opposite direction of travel of the bars of the second set of moving flats.

3. (currently amended) The carding Carding machine according to claim 2, in which the ~~said~~ sets of moving flats have a covering provided with a plurality of teeth having a predetermined population.

4. (currently amended) ~~Carding machine according to claim 3, in which~~ A carding machine comprising:

a main drum fed by a feed system with roughly attenuated and cleaned fibers, wherein the feed system comprises at least two briseurs which feed the main drum at different points of the main drum; and

at least one system of flats for carding the fibres, acting on the main drum, wherein the system of flats comprises a first set of moving flats and a second set of moving flats arranged downstream of the first set of moving flats and wherein each set of moving flats

has a covering provided with a plurality of teeth having a predetermined population, the population of teeth on the first set of moving flats being less than is different from the population of teeth on the second set of moving flats.

5. (cancelled)

6. (currently amended) The carding ~~Carding~~ machine according to claim 4 1, ~~in which~~ wherein there is between the ~~said~~ sets of moving flats a refining region directed towards the ~~said~~ main drum and capable of working the fibre carried by the main drum.

7. (currently amended) The carding ~~Carding~~ machine according to claim 6, ~~in which~~ wherein the ~~said~~ refining region comprising suction nozzles.

8. (currently amended) The carding ~~Carding~~ machine according to claim 7, ~~in which~~ wherein the ~~said~~ suction nozzles have corresponding blades.

9. (currently amended) The carding ~~Carding~~ machine according to claim 8, ~~in which~~ wherein the ~~said~~ refining region comprises control plates.

10. (currently amended) The carding ~~Carding~~ machine according to claim 9, ~~in which~~ wherein the ~~said~~ refining region comprises at least one fixed clothed segment.

11. (currently amended) The carding ~~Carding~~ machine according to claim 4 2, ~~that also~~ comprises further comprising a precarding region directed towards the ~~said~~ main drum and situated upstream of the ~~said~~ first set of moving flats.

12. (currently amended) The carding ~~Carding~~ machine according to claim 11, in which the ~~said~~ precarding region comprises at least one fixed clothed segment, suction nozzles and blades.

13. (currently amended) The carding ~~Carding~~ machine according to claim 4 2, ~~that also~~ comprises further comprising a post-carding region directed towards the ~~said~~ main drum and

situated downstream of the ~~said~~ second set of moving flats.

14. (currently amended) The carding ~~Carding~~ machine according to claim 13, ~~in which~~ wherein the ~~said~~ post-carding region comprises at least one fixed clothed segment, suction nozzles and blades.

15. (currently amended) The carding ~~Carding~~ machine according to claim ~~4~~ 1, ~~that also comprises~~ further comprising, located upstream of the ~~said~~ briseurs, a storage apparatus that produces separate feed lines for the briseurs towards the main drum.

16. (currently amended) The carding ~~Carding~~ machine according claim ~~4~~ 1, ~~that also comprises~~ further comprising a ~~fibre~~ fiber cleaning and attenuating system for each briseur.

17. (currently amended) The carding ~~Carding~~ machine according to claim ~~4~~ 1, ~~in which~~ wherein the points of interaction between the ~~said~~ briseurs and the ~~said~~ main drum are distant from each other on the circumference of the ~~said~~ main drum, allowing the insertion of auxiliary mechanisms for pretreating the fibre fed to the first briseur (~~12a~~) located upstream of the second briseur.

18. (currently amended) The carding ~~Carding~~ machine according to claim 17, ~~in which~~ wherein the ~~said~~ auxiliary pretreatment mechanism comprises blades and suction nozzles.

19. (currently amended) The carding ~~Carding~~ machine according to claim 18, ~~in which~~ wherein the ~~said~~ auxiliary pretreatment mechanism also comprises a fixed clothed segment.

20. (currently amended) A carding ~~Carding~~ method comprising the ~~following~~ steps of: feeding a main drum of a carding machine with a first stream of ~~fibre~~ fiber in a thin layer to a first point of interaction with the ~~said~~ main drum; feeding the main drum of the carding machine, simultaneously with the ~~said~~ first stream, with a second stream of ~~fibre~~ fiber in a thin layer to a second point of interaction with the ~~said~~ main drum, the ~~said~~ second point of interaction being downstream of the ~~said~~ first point of interaction; performing on the ~~fibre~~ fiber carried by the

~~said~~ main drum a first parallelization by means of a first set of moving flats having a covering provided with a plurality of teeth having a predetermined population; performing on the ~~fi~~~~bre~~ fiber carried by the ~~said~~ main drum a second parallelization by means of a second set of moving flats situated downstream of the ~~said~~ first set of moving flats, the second set of moving flats having a covering provided with a plurality of teeth having a different population than that of the first set of moving flats wherein the first parallelization is less thorough than the second parallelization; and taking the thin layer of parallelized ~~fi~~~~bre~~ fiber from the main drum by means of a doffer system.

21. (cancelled)

22. (currently amended) The carding ~~Carding~~ method according to claim 20 ~~21~~, ~~that also comprises further comprising~~ the step of cleaning and straightening the ~~said~~ first stream of ~~fi~~~~bre~~ fiber in a thin layer before the ~~said~~ stream reaches the ~~said~~ second point of interaction.

23. (currently amended) The carding ~~Carding~~ method according to claim 20, ~~that also includes further comprising~~ the step of refining the thin layer of ~~fi~~~~bre~~ fiber, which has already undergone the ~~said~~ first parallelization, before it undergoes the ~~said~~ second parallelization.

24. (currently amended) The carding ~~Carding~~ method according to claim 23, ~~in which wherein~~ the ~~said~~ refining step comprises the step of cleaning the ~~said~~ ~~fi~~~~bre~~ fiber.

25. (currently amended) The carding ~~Carding~~ method according to claim 24, ~~in which wherein~~ the ~~said~~ refining step comprises the step of straightening the said ~~fi~~~~bre~~ fiber.